

FIG. 1B

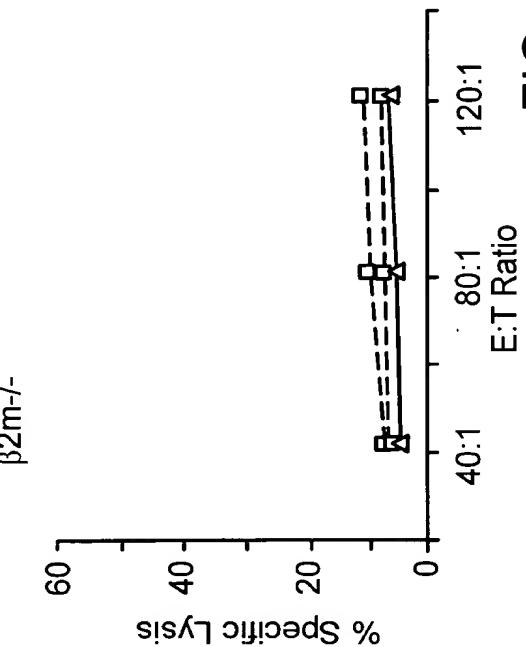


FIG. 1C



FIG. 1B



2/15

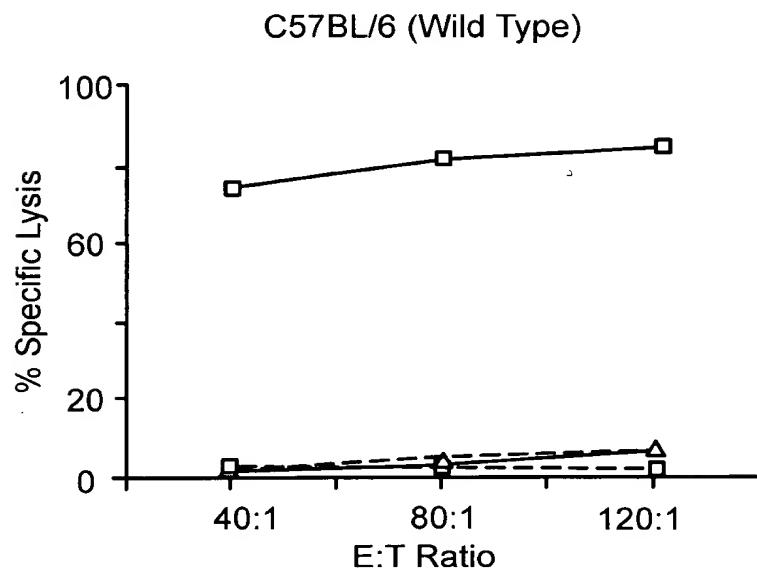


FIG. 2A

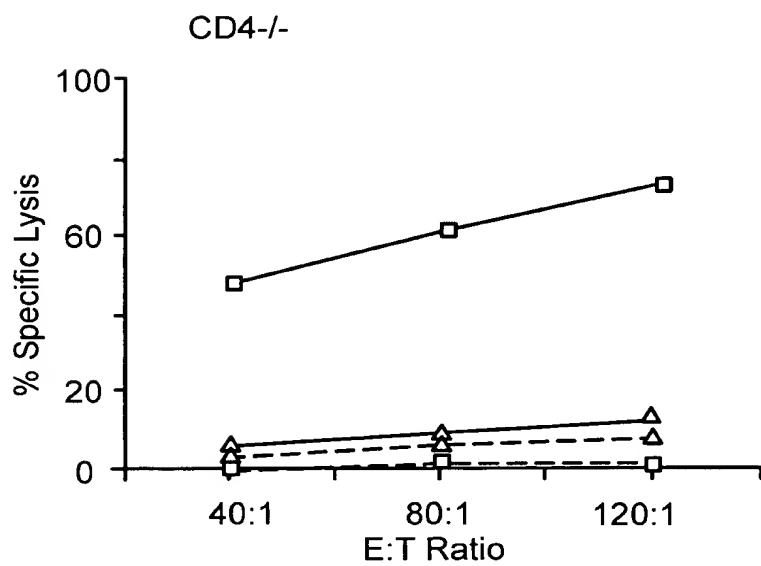


FIG. 2B

Effectors Cells elicited with:

- OVA.TBhasp70
- △ OVA

Target Cells:

- - - T2-K^b
- T2-K^b+SIINFEKL



3/15

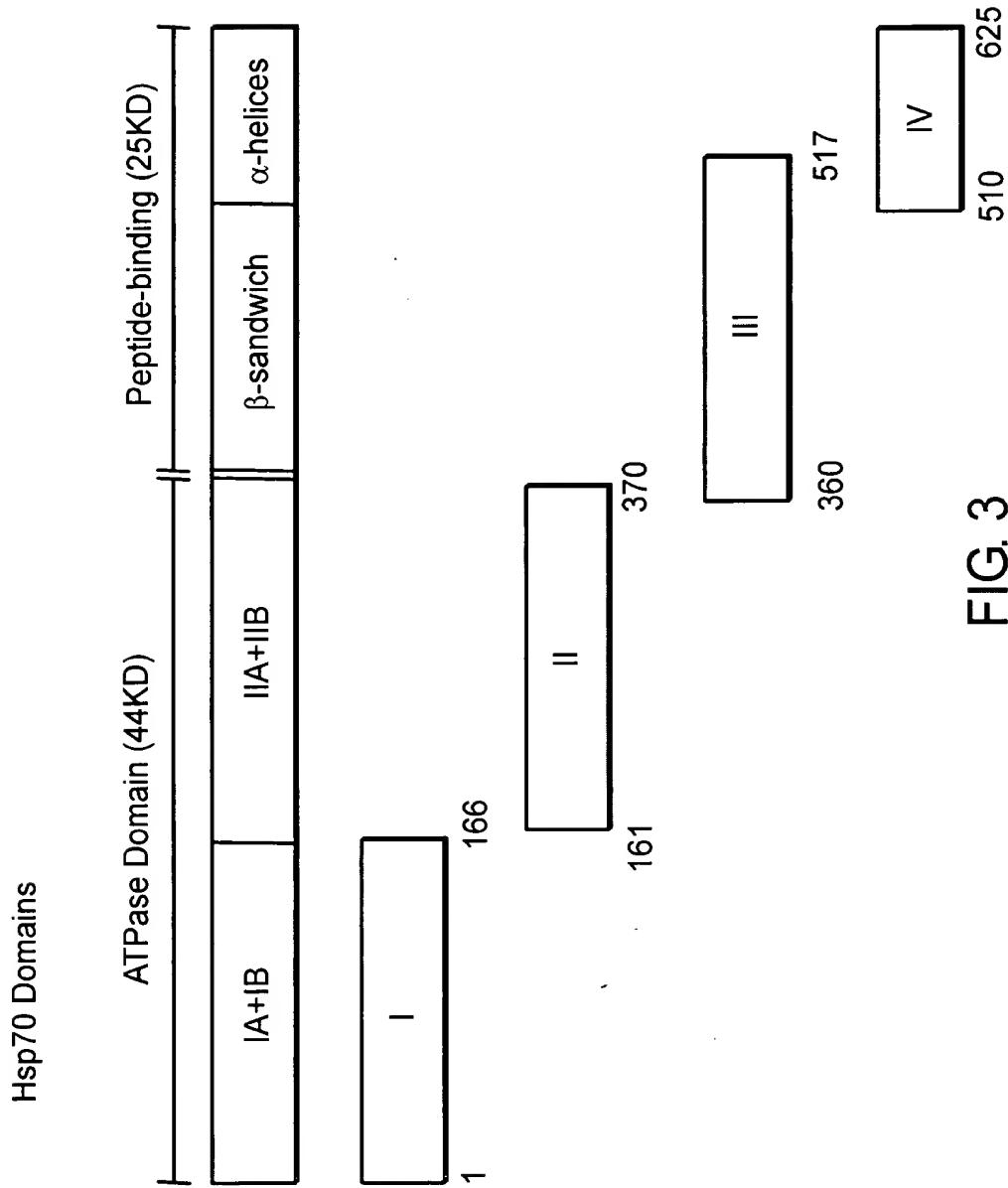


FIG. 3



Appl'n No.: 09/761,534
Title: In Vivo CTL Elicitation by Heat Shock Protein..
Inventors: Qian Huang, et al.
Replacement Sheet

4/15

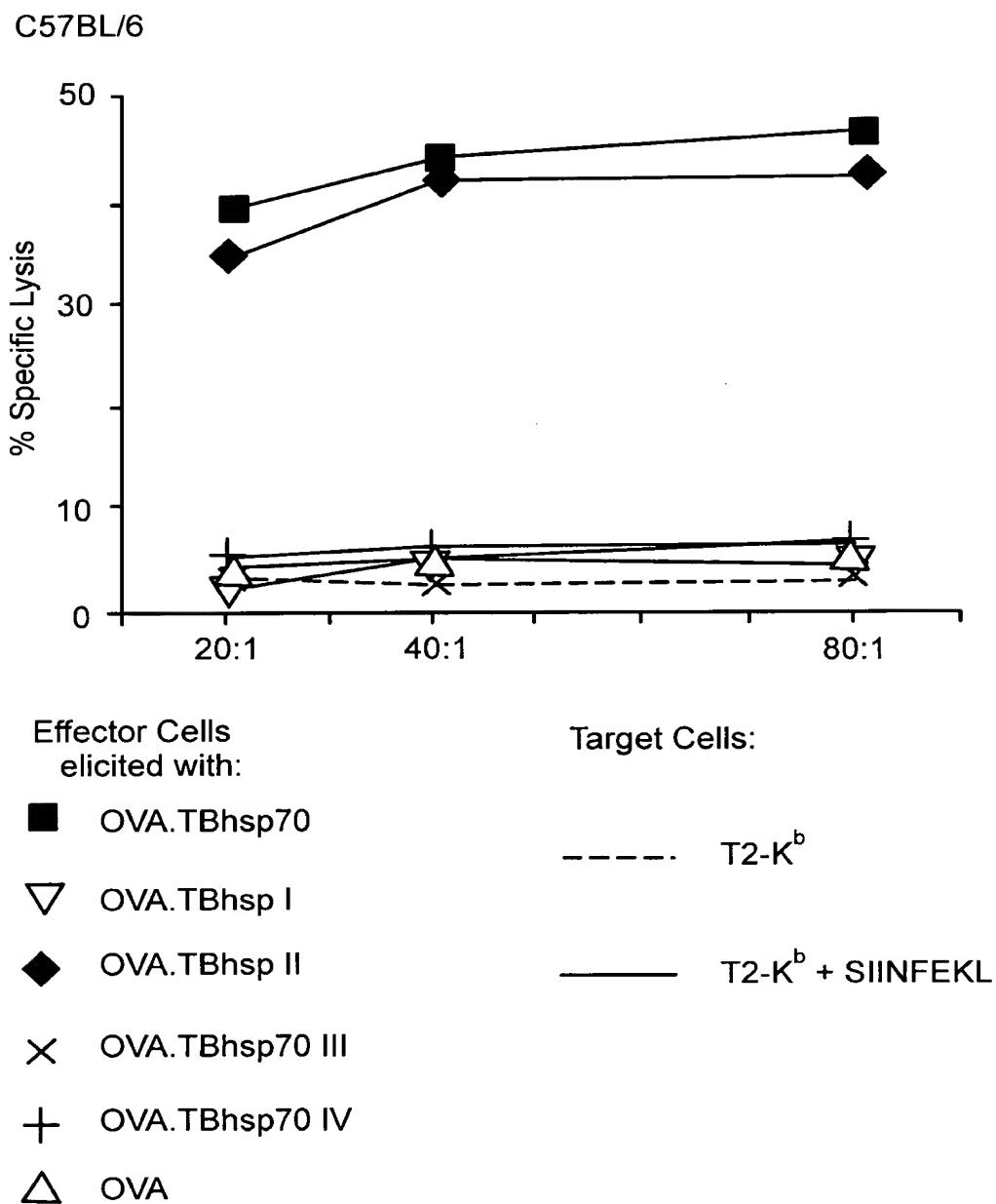
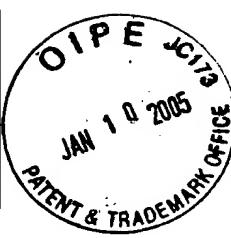


FIG. 4



Appl'n No.: 09/761,534
Title: In Vivo CTL Elicitation by Heat Shock Protein..
Inventors: Qian Huang, *et al.*
Replacement Sheet

5/15

FIG. 5A

The diagram shows the Hsp65 protein sequence: IKVSGLEQLESIYRYYGLLKEAY. Two epitopes are identified: Ova (underlined) and αKG (underlined). An arrow points to the start of the Ova epitope, and another arrow points to the end of the αKG epitope.

Hsp65	P1
-------	----

FIG. 5A

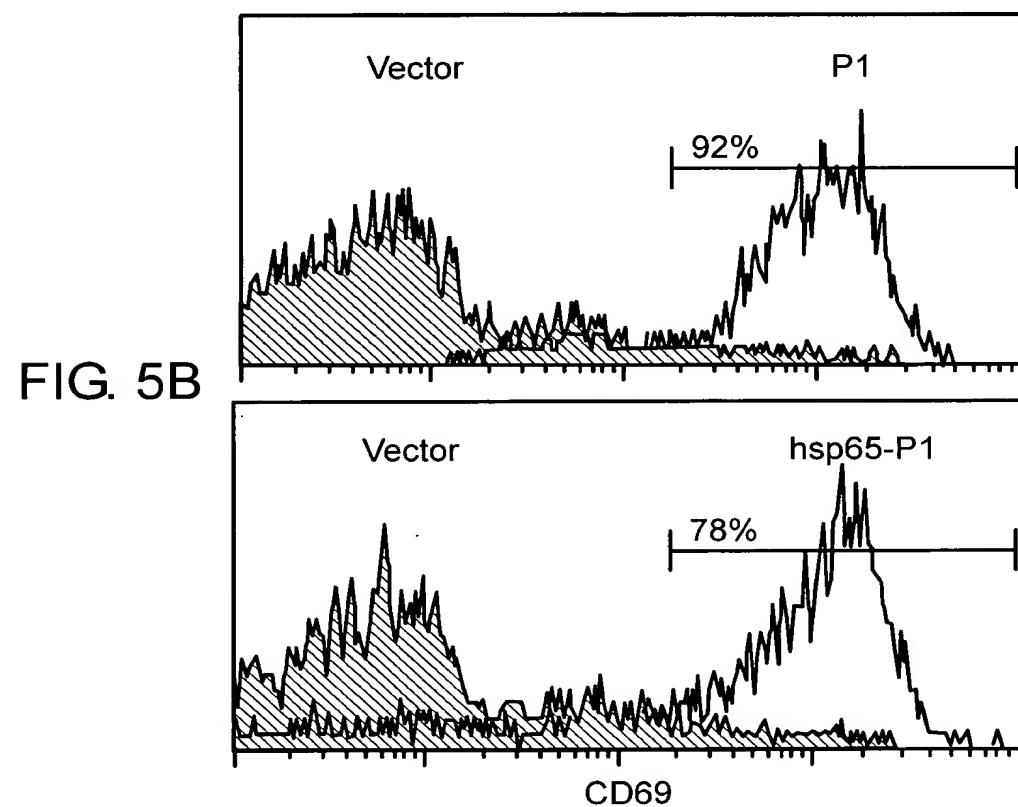


FIG. 5B

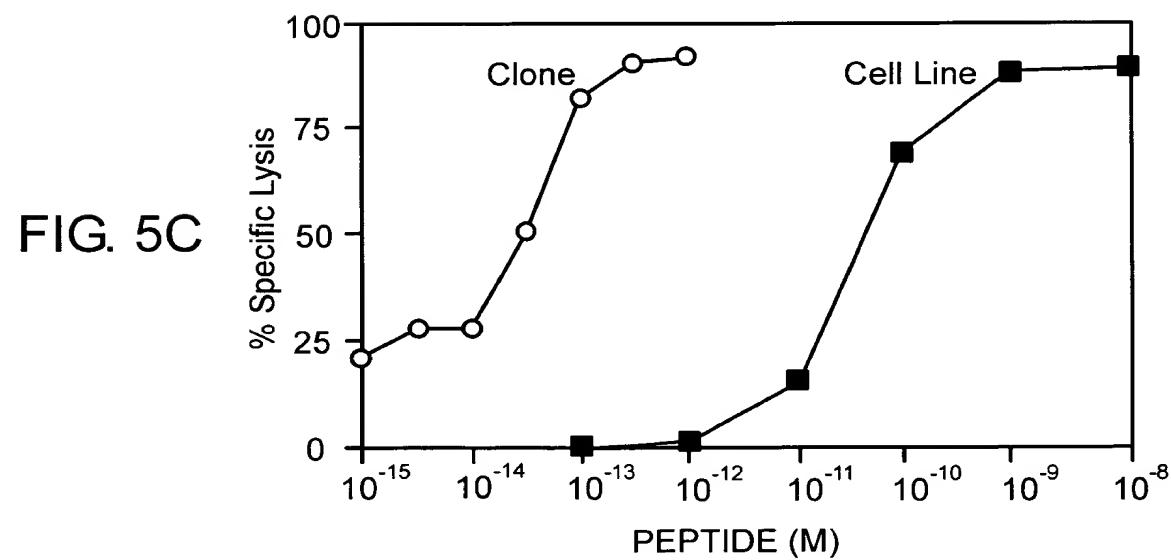
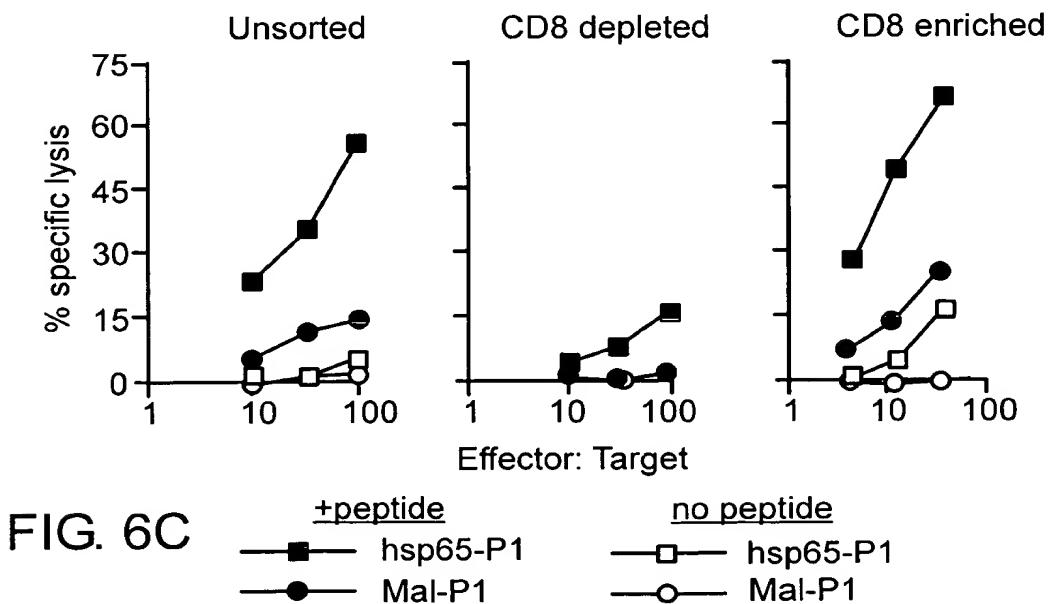
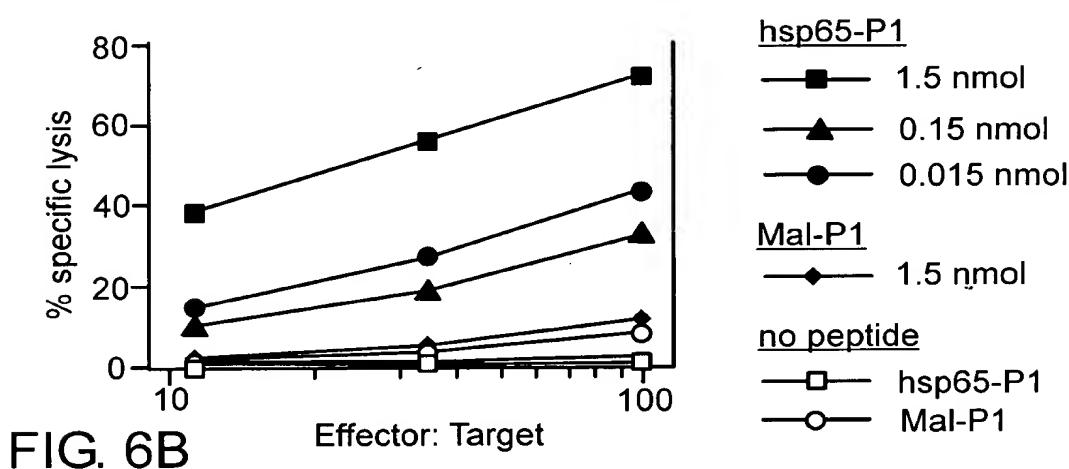
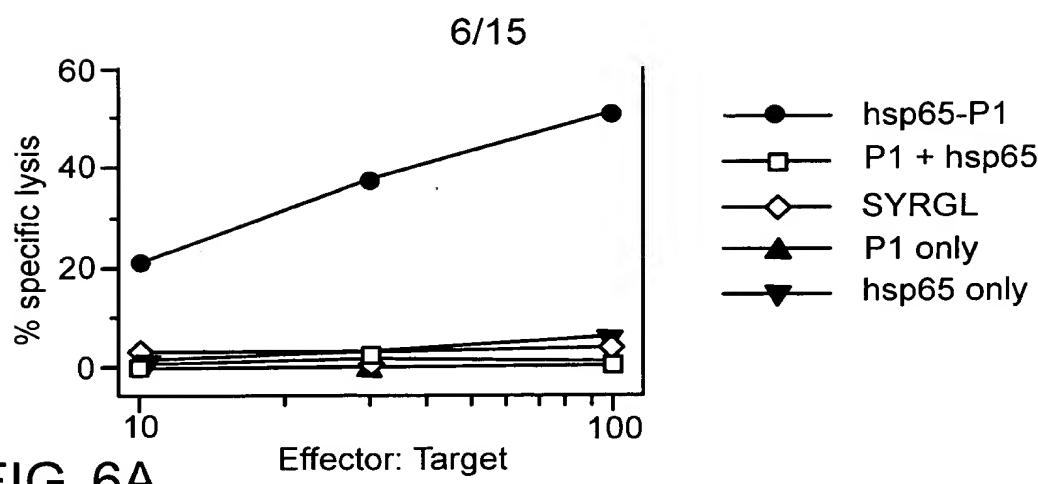


FIG. 5C



7/15

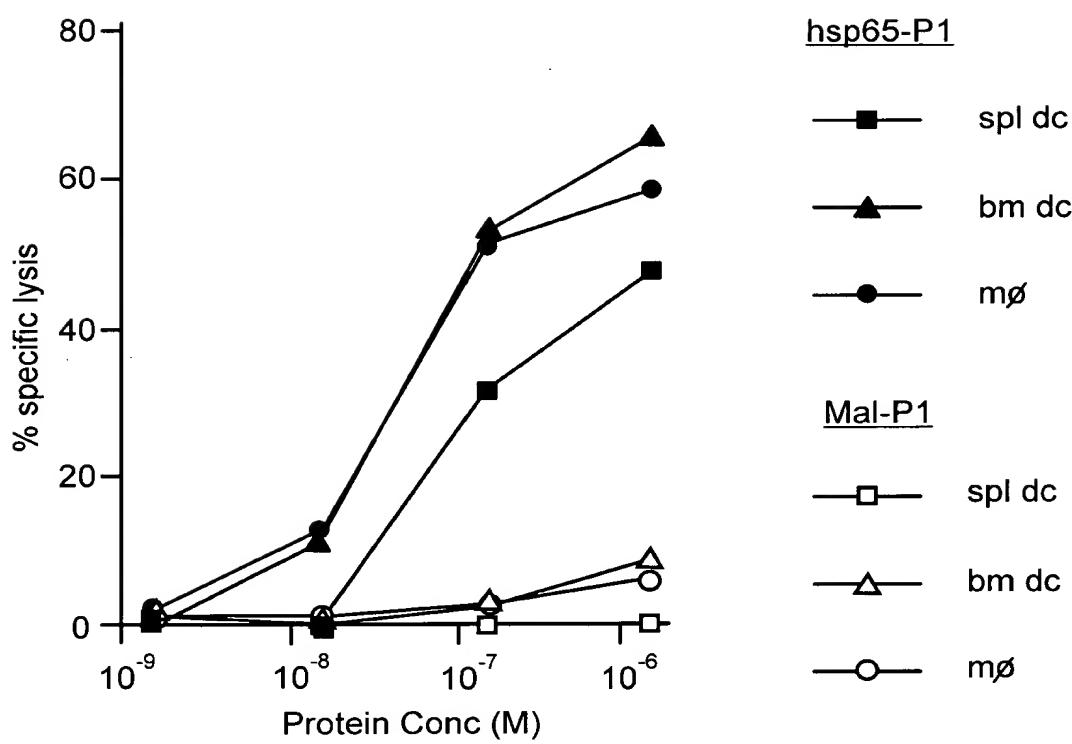


FIG. 7



Appl'n No.: 09/761,534
 Title: In Vivo CTL Elicitation by Heat Shock Protein..
 Inventors: Qian Huang, et al.
 Replacement Sheet

8/15

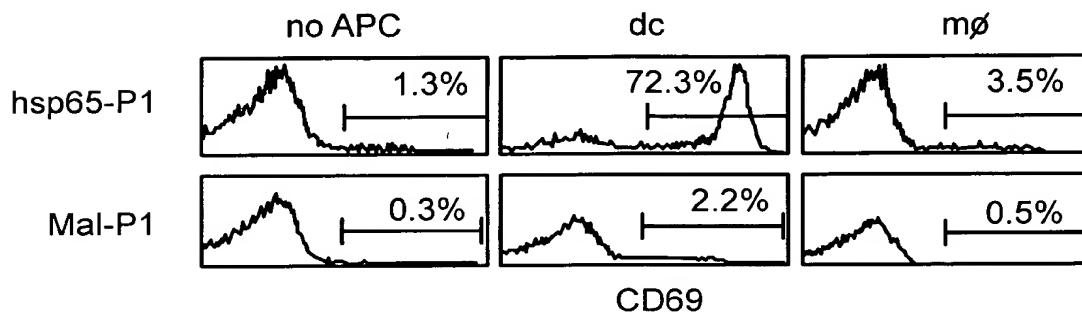


FIG. 8A

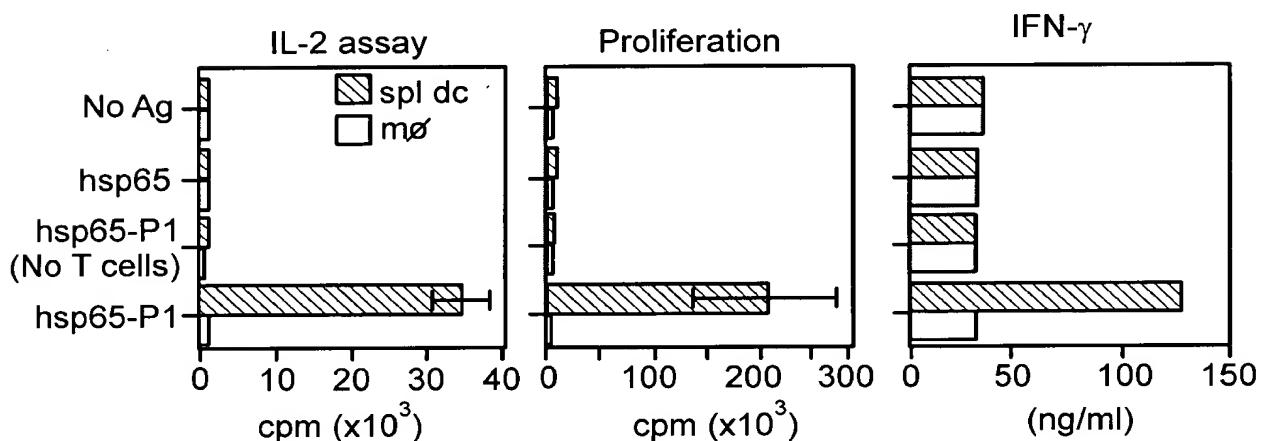


FIG. 8B

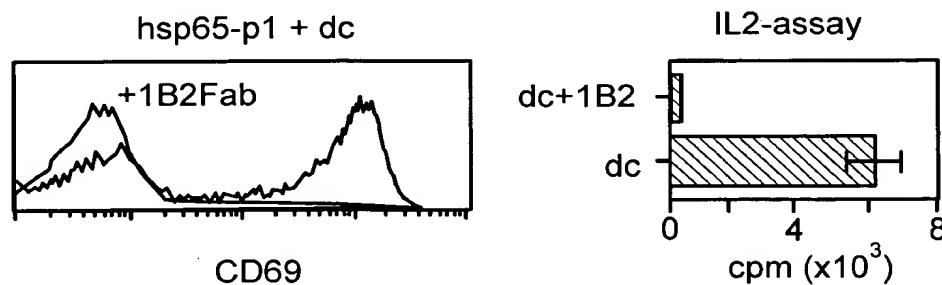


FIG. 8C



Appl'n No.: 09/761,534
Title: In Vivo CTL Elicitation by Heat Shock Protein..
Inventors: Qian Huang, *et al.*
Replacement Sheet

9/15

FIG. 9A

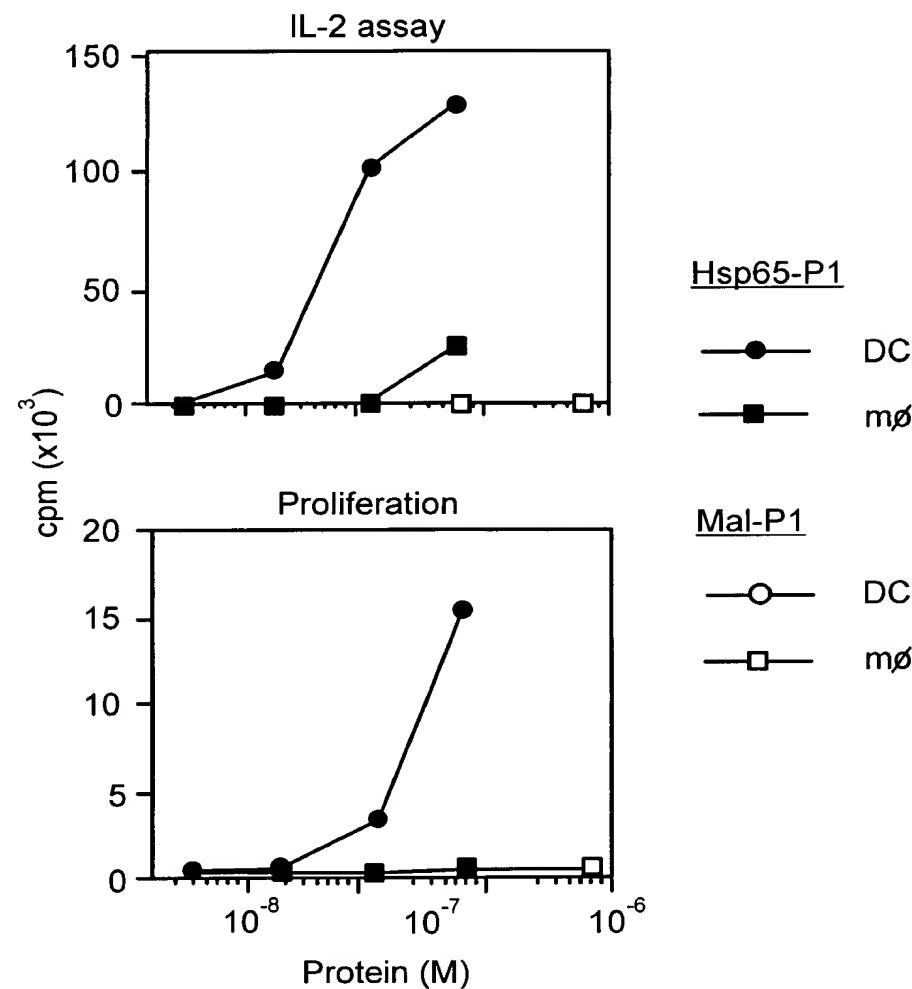
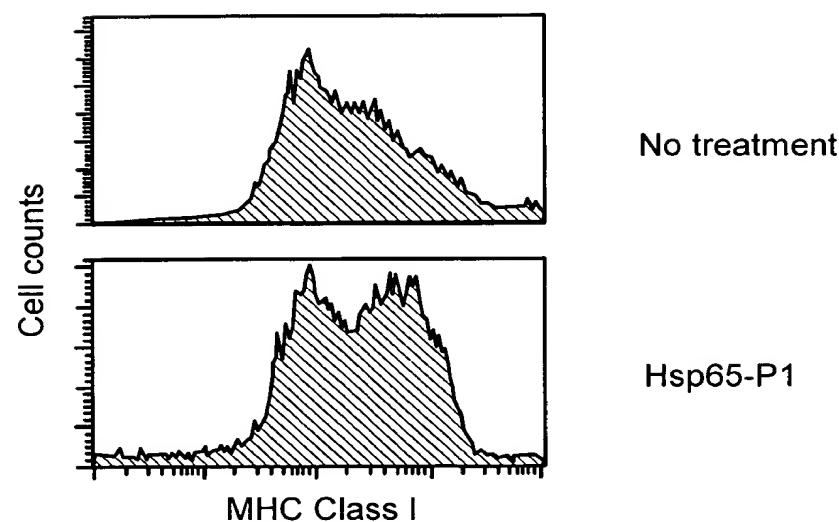


FIG. 9B





Appl'n No.: 09/761,534
Title: In Vivo CTL Elicitation by Heat Shock Protein..
Inventors: Qian Huang, *et al.*
Replacement Sheet

10/15

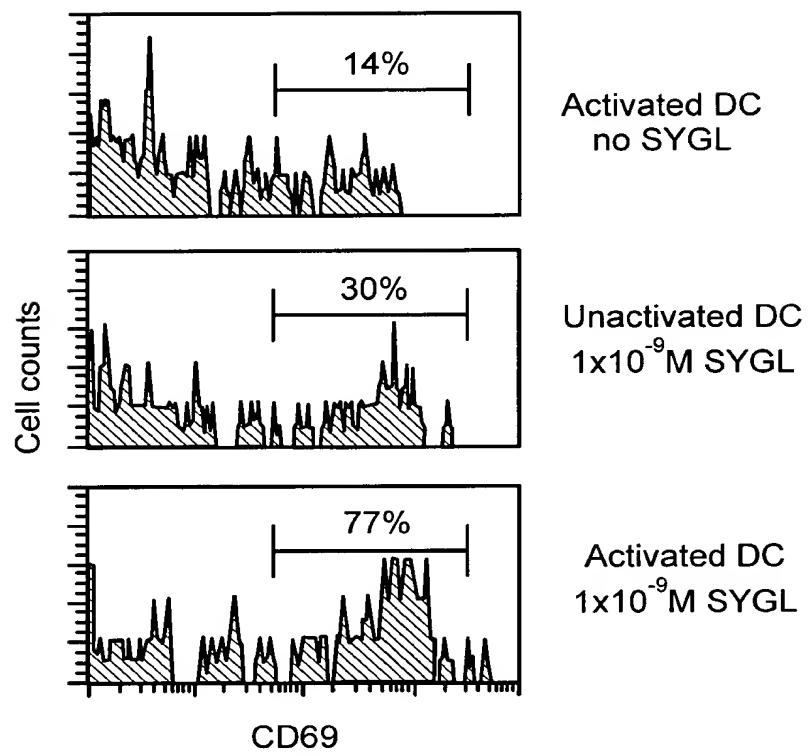
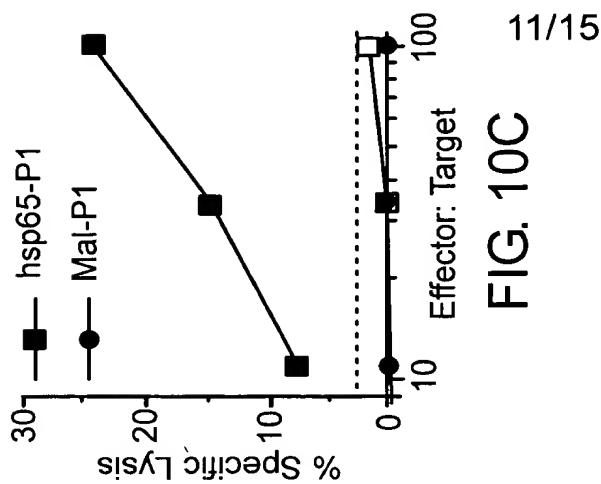


FIG. 9C



11/15

FIG. 10C

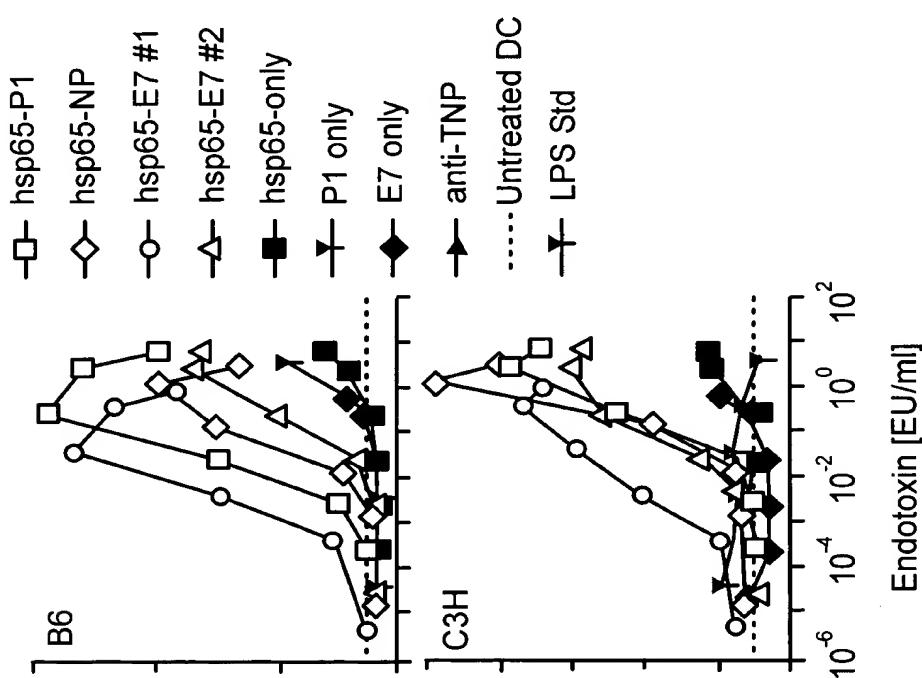


FIG. 10B

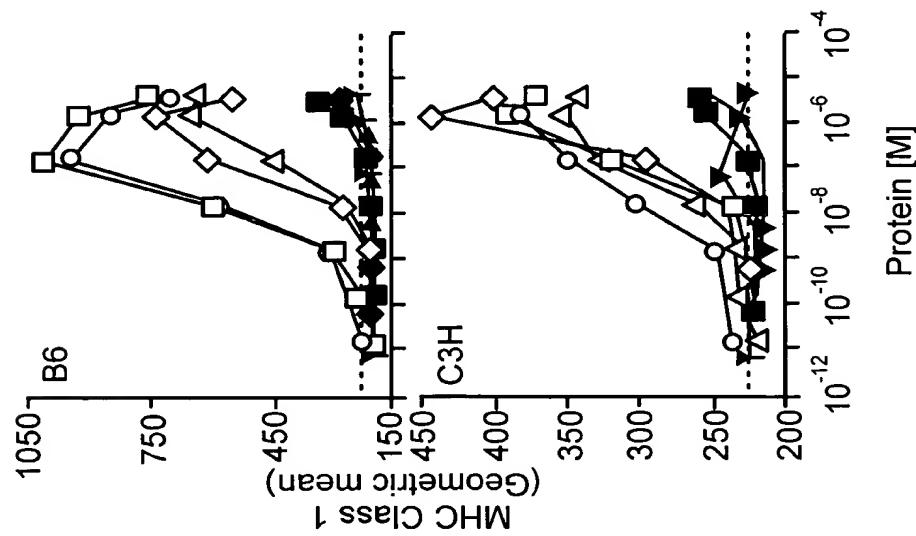


FIG. 10A



Appl'n No.: 09/761,534
Title: In Vivo CTL Elicitation by Heat Shock Protein..
Inventors: Qian Huang, et al.
Replacement Sheet

12/15

atg gct cgt gcc gtc ggg atc gac ctc ggg acc aac tcc gtc gtc teq gtt ctg gaa ggt ggc gag ccc gac ctc gtc gtc gtc gtc gtc gtc aac tcc gag ggc tcc agg acc ccg tca att
M A R A V G I D L G T T N S V V S V L E G D P V V A N S E G S R T T P S I

gtc ggg ttc gcc cgc aac ggt gag gtg ctg gtc ggg cag ccc gcc aag aac cag gca gtt acc aac gtc gat cgc acc gtc gtc aag cga cac atg ggc agc gac tgg
V A F A R N G E V L V G Q P A K N Q A V T N V D R T V R S V K R H M G S D W

tcc ata gag att gac ggc aag aaa tac acc ggg ccg gag atc agc gcc cgc att ctg atg aag ctg aag cgc gac gcc gag gcc tac ctc gtt gag gac att acc gac gcg gtt
S I E I D G K K Y T A P E I S A R I L M K L A E Y L G E D I T D A V

atc acg acg ccc gcc tac ttc aat gac gcc cag cgt cag gcc acc aag gac gcc ggc ggc ctc aac gtc gtc ggg atc gtc aac gag cgg acc gtc ggc ctc atg gcc
I T T P A Y F N D A Q R Q A T K D A G Q I A G L N V L R I V N E P T A A A L

gcc tac ggc ctc gac aag ggc gag aag gag cag cga atc ctg gtc ttc gac ttt ggt ggt ggc act ttc gac atc gtc gtc gag atc egg gag ggt gtt gag gtc cgt gcc
A Y G I D K G E K E Q R I L V F D L G G G T F D V S L L E I G E G V V E V R A

act tcg ggt gac aac cac ctc ggc ggc gac gac tgg gac cag cgg gtc gtc gat tgg ctg gtt gac aag ttc aag ggc acc agc ggc atc gat ctg acc gtc gtc gag atc
T S G D N H L G G D D W D Q R V V D W L V D K F K G T S G I D L T K D K M A

atg cag cgg ctg cgg gaa gcc gag aag gca aag atc ctc gtc gag ctg agt tcg agt cag tcc acc tcg gtc aac ctg ccc tac atc gtc gac aac ccc gac aag aac
M Q R L R E A A E K A K I E L S S Q S T S I N L P Y I T V D A D K N P L F I

gac gag cag ctg acc cgc gcg gag ttc caa cgg atc act cag gag ctg ctg gac cgc act cgc aag ccc ttc cag tcg gtc gat gtc gag acc gtc gtc gag atc
D E Q L T R A E F Q R I T Q D L L D R T R K P F Q S V I A D T G I S V S E I D

cac gtt gtt ctg acc cgg atg ccc ggg gtc aac gag gaa ctc acc ggc ggc aag gaa ccc aac aag ggc gtc aac ccc gat gag gtt gtc gtc gtc gtc
H V V L V G S T R M P A V T D L V K E L T G G K E P N K G V N P D E V V A V

ggg gcc gct ctg cgg ggt ttc acc cgg atg ccc ggg gtc aag ggc gag gtt ctg ctg gtt gat gtc gag gtt acc ccc gtc gtc gtc gtc gtc gtc
G A A L Q A G V L K G E V K D V L L D V T P L S L G I E T K G V M T R L I

gag cgc aac acc acg atc ccc acc aag cgg ttc gag act ttc acc acc gcc gac gac aac cca ccg tcc gtc gag atc cag gag gag cgt gag
E R N T T I P T K R S E T F T T A D D N Q P S V Q I Q V Y Q G E R E

FIG. 11



Appl'n No.: 09/761,534

Title: In Vivo CTL Elicitation by Heat Shock Protein..

Inventors: Qian Huang, et al.

Replacement Sheet

13/15

gag aag cag cga atc ctg gtc ttc gac ttg ggt ggc act ttc gac ttg ggt ggc act tcc ctg gag atc ggc gag ggt gac aac cac ctc ctc
E K E Q R I L V F D L G G T F D V S L L E I G V V E V R A T S G D N H L G

ggc gac gac tgg gag cgg ctc gtc gat ttg ctg gtg gac aag ttc aag ggc acc agc ggc atc gat ctg acc aag gac aag atg gcg atg cag cgg ctc ggg gac
G D D W D Q R V V D W L V D K F K G T S G I D L T K D K M A M Q R L R E A A

gag aag gca aag atc gag ctg agt tcg atc aac ctg ccc tac atc acc gtc gac gac gac aac ccg ttg ttc tta gag gag cag ctc gtc acc
E K A K I E L S S Q S T S I N L P Y I T V D A D K N P L F L D E Q L T R A E

ttc caa cgg atc act cag gag ctg ctg gac cgc act cgc aag ccg ttc cag tcg gtg atc gct gac acc gac acc gtc gag atc gat cac gtt gtc ctc gtc ggt ggt tcg acc
F Q R I T Q D L L D R T R K P F Q S V I A D T G I S V S E I D H V V L V G G S T

cgg atg ccc gcg gtg acc gat ctg gtc aag gaa ctc acc ggc ggc aag gaa ccc aac aag ggc gtc aac ccc gat gag gtt gtc gtc gtc ggt gga gcc gct ctc cag
R M P A V T D L V K E L T G G K E P N K G V N P D E V V A V G A A L Q A G V

ctc aag ggc gag gtg aaa gac gtt ctg ctt gat gtt acc ccg
L K G E V K D V L L D V T P

FIG. 12



Appl'n No.: 09/761,534
Title: In Vivo CTL Elicitation by Heat Shock Protein..
Inventors: Qian Huang, et al.
Replacement Sheet

14/15

atg gcc aac acg gcc atc ggc acc tac tcc gtc ggg ttc cag cac ggc aag ggt gag atc gcc aac gac cag ggc aac cgc acc acc
M A K N T A I G I D L G T T Y S C V G V F Q H G K V E I I A N D Q G N R T T

ccc agt tac gtg gcc ttc acc gac acc gag cgc ctc atc ggg gac gcc gca aac cag ggt ggc ctg aac acc gtc ggc aag cgg ctg atc ggc cgc
P S Y V A F T D T E R L I G D A A K N Q V A L N P Q N T V F D A K R L I G R

aag ttc ggc gat gcg ggt ggc cag tcc gac atg aag cact ggcc ttc cag ggt ggt aac gac ggc gac aag ccc aag gtt cag gtc aac gac ttc gag
K F G D A V V Q S D M K H W P F Q V V N D G D K P K V Q V N Y K G E S R S F F

ccg gag gag atc tcc atg gtg ctc acg aag gag atc gct gag ggc gtc atc aac gac ccc acg gtc ggt atc acg gtc ccc gcc tac ttc aac gac tct gag
P E E I S S M V L T K M E I A E A Y L G H P V T N A V I T V P A Y F N D S Q

cgcc gag acc aag gag gac ggc ggt gatc gcc ggt cta aac gtc ctc cgg atc atc aac gag ccc acg ggc gtc atc gcc tac ggg ctc gac cgg acc ggc aag ggc gag
R Q A T K D A G V I A G L N V L R I I N E P T A A A Y G L D R T G K G E

cgcc aac gtc atc ttc gac ctc gtc ggg ggc acg ttc gac gtc ggt tcc atc ctc gac gac ggc atc ttc gac gtc ggg ggc gac acg cac ctg gga ggg gag
R N V L I F D L G G T F D V S I L T ,I D D G I F E V K A T A G D T H L G G E

gac ttc gac aac cgg ctg gtc agc cac ttc gtc gag gag ttc aag aag cac aac aag gag atc agc cag aac aag gag ctc gag gtc atc acg ggc gtc ggg cgg cgg ctg cgc acg ggc tgc tgg gag
D F D N R L V S H F V E E F K R K H K D I S Q N K R A V R R L R T A C E R

gcc aag agg acg ctg tcc acg acc cag gcc acg ctg gag atc gac tcc tcc atc gac tcc atc aca tcc atc acg cgg ggc cgg ttc gaa gag ctg tcc tcc gag
A K R T L S S T Q A S L E I D S L F E G I D F Y T S I T R A R F E E L C S D

ctg ttc cgg ggc acg ctg gag ccc gtc gag aag gcc ctc gtc ggg ggc aag atg gac aag gcc cag atc cac gac ctg gtc gag ctc acg ccc aag gtc
L F R G T L E P V E K A L R D A K M D K A Q I H D L V L V G G S T R I P K V

cag aag ctg ctg gag gac ttc aac cgg ggc gtc gac ctg aac aag agg atc aac cgg gac gag ggc gtc gag ggc gtc acg atg ggg gac
Q K L L Q D F F N G R D L N K S I N P D E A V Q A A V Q A A I L M G D

aag tcg gag aac gtc gag gac ctg ctg gtc gac gtc ggg ggc ccc ctg tcc gtc gag act gcc ggc gtc atc aag cgc aac tcc acc atc ccc acc
K S E N V Q D L L D V A P L S L D N Q P G V L I

FIG. 13A



Appl'n No.: 09/761,534
Title: In Vivo CTL Elicitation by Heat Shock Protein.
Inventors: Qian Huang, *et al.*
Replacement Sheet

15/15

cag gtg tac gag ggc gag agc gac aac aac ctg ctg ggg cgc ttc gag ctg agg ggc atc ccg ccg gcg ccc agg ggc gtg ccg cag atc gag gtg acc ttc
 Q V Y E G E R A M T R D N N L L G R F E L S G I P P A P R G V P Q I E V T F

 gac atc gac ggc aac ggc atc ctg aac gtc acg gcc acc gac aag agg acc gcc aac aag atc acc aac gac aag ggc cgc ctg agg aag gag gag atc gag
 D I D A N G . I L N V T A T D K S T G K A N K I T I T N D K G R L S K E E I E

 cgc atg gtg cag gag gcc gac gac gag gag ggc cgc gag cag gag cgc gag aac gac agg ggc gac aag aac gca tat gtc aac atg aag agc gtc gag tcc
 R M V Q E A E R Y K A E D E V Q R D R V A A K N A L E S Y A F N M K S A V E

 gac gag egg ctc aag ggc aag ctc aag gac aag aag gtc ctg gac aag tgc gag gtc atc tcc tgg ctg gac tcc aac acg ctg gcc gac aag gag gag ttc egg
 D E G L K G K L S E A D K K V L D K C Q E V I S W L D S N T L A D K E E F V

 cac aag cgg gag gag ctg gag egg gtg tgc agc ccc atc atc agt ggg ctg tac cag ggt ggt ggt gct gct ggg ggt ggt ggt ggt ggt ggt ggt ggt
 H K R E E L E R V C S P I I S G L Y Q G A G P G A P G A G F G A Q A P P K G A

FIG. 13B

EIG 14